



UL LLC  
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## Indoor Distribution Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-2002

**Prepared For**  
**B-K LIGHTING INC**

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**Catalog Number**  
**AP-LED-C26-MFL-12-4000K, SM-AP-LED-C26-MFL-12-4000K**

Order Number

12498468

Test Number

12498468.06B

Revised:

2018-11-27

Test Date

2018-11-16

Prepared By

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Approved By

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The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** White cylindrical metal housing with metal mounting plate; specular prismatic reflector and glass prismatic lens  
**Lamp:** One (1) Luminetix CTM1C19 16-80K 2000L 35W 24V module with diffuse lens and specular reflector  
**Mounting:** Surface – Wall  
**Ballast/Driver:** One (1) Efore Strato RSLP070-24

**Luminaire**



**Luminaire Characteristics**  
Luminous Diameter: 4.50 in.

**Summary of Results**

Total Luminaire Output:	1292 Lumens
Luminaire Efficacy:	32.8 lm/w
Maximum Candela:	3408 Candela

**Test Conditions**

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.3357 A
Power:	39.35 W
Power Factor:	0.977
Frequency:	60 Hz
Current THD:	16.1 %

Laboratory results may not be representative of field performance  
Ballast factors have not been applied



## Distribution - Goniophotometer

### Distribution Test Conditions

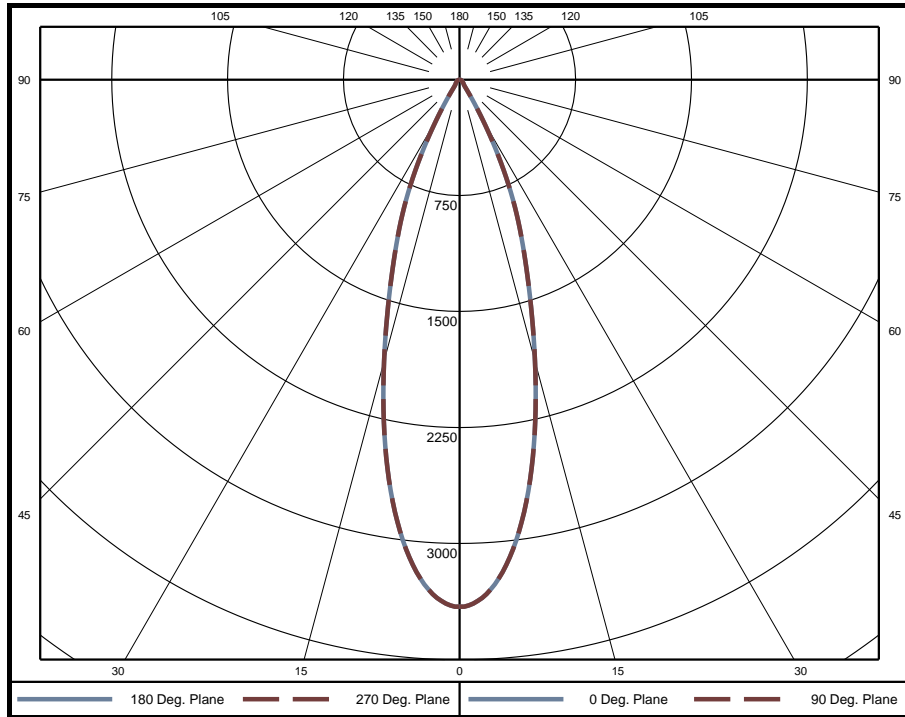
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.3357 A	39.35 W	0.977	60 Hz	16.1 %

### Summary of Results

**Spacing Criteria**  
 0-180: 0.53  
 90-270: 0.53

**Total Lumen Output:** 1292 Lumens  
**Luminaire Efficacy:** 32.8 lm/w  
**Maximum Candela:** 3408 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	79.0	6.1%	60-65	8.9	0.7%	120-125	0	0.0%
5-10	207.9	16.1%	65-70	7.9	0.6%	125-130	0	0.0%
10-15	265.3	20.5%	70-75	6.7	0.5%	130-135	0	0.0%
15-20	252.4	19.5%	75-80	5.1	0.4%	135-140	0	0.0%
20-25	206.7	16.0%	80-85	3.6	0.3%	140-145	0	0.0%
25-30	127.9	9.9%	85-90	1.8	0.1%	145-150	0	0.0%
30-35	50.1	3.9%	90-95	0	0.0%	150-155	0	0.0%
35-40	20.1	1.6%	95-100	0	0.0%	155-160	0	0.0%
40-45	14.7	1.1%	100-105	0	0.0%	160-165	0	0.0%
45-50	13.0	1.0%	105-110	0	0.0%	165-170	0	0.0%
50-55	11.3	0.9%	110-115	0	0.0%	170-175	0	0.0%
55-60	9.9	0.8%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1209	93.6%
0-60	1258	97.4%
0-90	1292	100.0%
90-180	0	0.0%



**Candela Tabulation**  
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
	0	3408	3408	3408	3408	3408	3408	3408	3408	3408	3408	3408	3408	3408	3408	3408
	5	3196	3196	3196	3196	3196	3196	3196	3196	3196	3196	3196	3196	3196	3196	3196
	10	2628	2628	2628	2628	2628	2628	2628	2628	2628	2628	2628	2628	2628	2628	2628
	15	1885	1885	1885	1885	1885	1885	1885	1885	1885	1885	1885	1885	1885	1885	1885
	20	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242
	25	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750
	30	299	299	299	299	299	299	299	299	299	299	299	299	299	299	299
	35	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
	40	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
	45	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
	50	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
	55	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	60	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	65	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
	70	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
	75	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	80	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	85	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Average Luminance (cd/m<sup>2</sup>)**  
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)			
	0	45	90	
	0	332100	332100	332100
	45	4908	4908	4908
	55	3978	3978	3978
	65	3922	3922	3922
	75	4220	4220	4220
	85	6158	6158	6158



### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%																		
Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as percent of total lumen output delivered to the task surface **																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81
5	97	90	85	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77
6	93	85	80	77	92	85	80	77	83	79	76	82	78	76	81	78	75	74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71
8	86	78	73	70	85	78	73	70	77	73	70	76	72	69	75	72	69	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	66	65
10	81	73	68	65	80	72	68	64	71	67	64	71	67	64	70	67	64	63

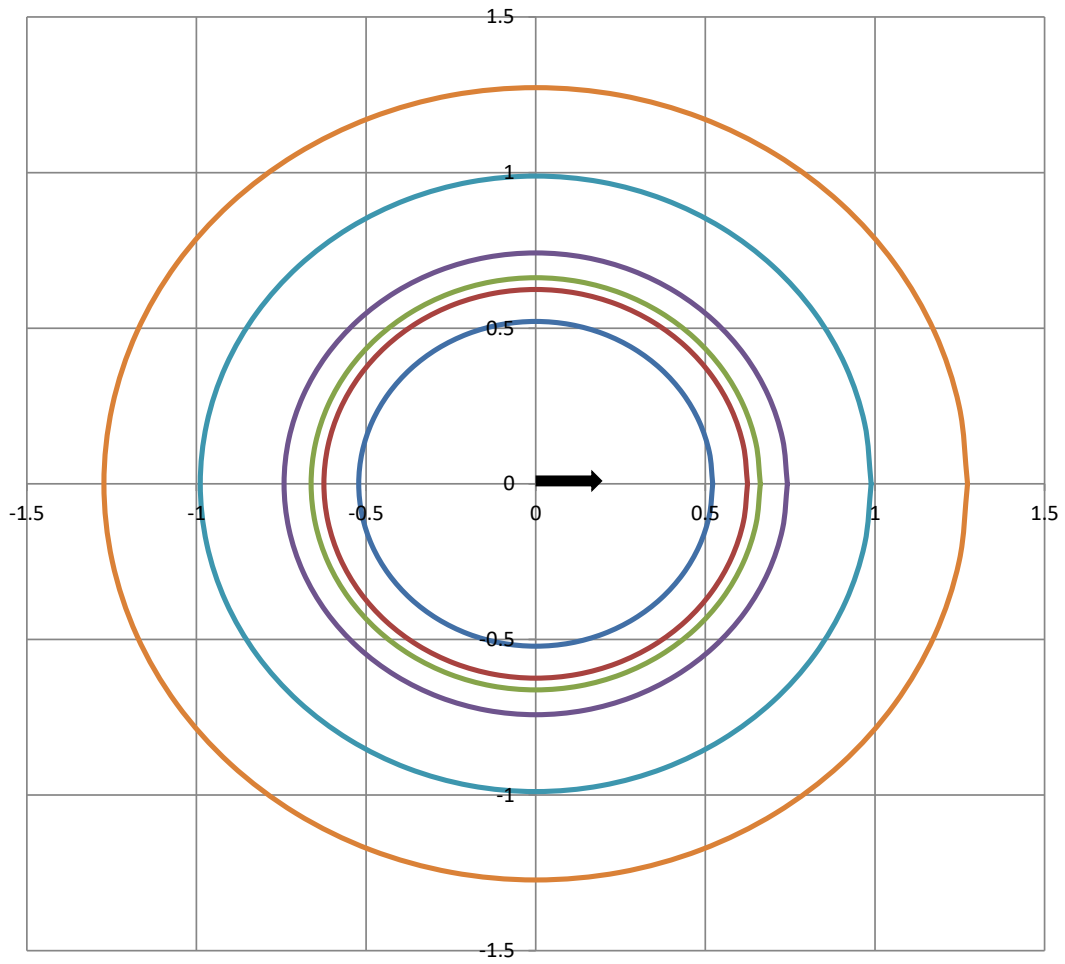
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	3408 Candela
Central Cone Intensity:	3333 Candela
Beam Flux:	618.0 Lumens
Beam Angle (0-180):	32.5 Degrees
Beam Angle (90-270):	32.5 Degrees
Field Angle (0-180):	58.9 Degrees
Field Angle (90-270):	58.9 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		213	2.14
6.00		94.7	3.21
8.00		53.2	4.28
10.0		34.1	5.35
12.0		23.7	6.42
14.0		17.4	7.49
16.0		13.3	8.56



## ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

